CONFERENCE OF THE EIGHTEEN-NATION COMMITTEE ON DISARMAMENT

ENDC/251
23 May 1969
ORIGINAL: ENGLISH

CANADA

Working paper on the Comprehensive Test Ban

Among many others, the Canadian Delegation believes that the problems of verifying a Comprehensive Test Ban would decrease even though they may not be entirely resolved, if guaranteed access to original seismological data could be assured within the framework of an organized and effective world-wide seismological data exchange. The Canadian Delegation also thinks that a practical method of achieving such an exchange would be through an increase and intensification of the international co-operation which already exists in this field.

2. To this end but before attempting to find an acceptable economic, technical means by which all parties would make seismological information freely available, two essential points need clarifying: what seismic information would governments make available and in what form? In this connexion the Canadian Delegation suggested at the 404th meeting of the ENDC on April 17 that countries be invited to send a list of the seismographic stations from which they would be ready to supply records on the basis of guaranteed availability of data in the framework of a world-wide exchange of seismic data and provide certain details concerning these stations. The suggested form of such a request from the ENDC is set out below. The Canadian Delegation is presenting this suggestion now in the hope that agreement to it can be speedily reached without prejudice to any other proposals under consideration by ENDC and the request sent out as soon as possible.

REQUEST FROM THE EIGHTEEN-NATION COMMITTEE ON DISARMAMENT TO THE GOVERNMENT OF ..... CONCERNING THE PROVISION OF CERTAIN INFORMATION IN THE CONTEXT OF THE CREATION OF A WORLD-WIDE EXCHANGE OF SEISMOLOGICAL DATA WHICH WOULD FACILITATE THE ACHIEVEMENT OF A COMPREHENSIVE TEST BAN

In order to assist in clarifying what resources would be available for the eventual establishment of an effective world-wide exchange of seismological information which would facilitate the achievement of a Comprehensive Test Ban, the Eighteen-Nation Committee on Disarmament requests the Government of ..... to supply to the Secretary-General of the United Nations for transmission to the ENDC a list of all its

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seismic stations from which it would be prepared to supply records on the basis of guaranteed availability, and to provide certain information about each station as set out below:

(a) Photographic recording seismograph stations

(i) Name of station

(ii) Co-ordinates of station

(iii) Instrumentation and components recorded. (This should include operational magnification at one second periods for short period and broad band seismographs and at 15 or 20 seconds for long period instruments.)

The Government of ..... is also requested to indicate whether full operational magnification curves in absolute units with fully annotated records would be provided, as only through provision of this information can the maximum usefulness of an international exchange of seismological data be guaranteed. It would also be useful to know the time window within which the Government of ..... would be prepared to supply original records or good quality microfilm, and if the latter, whether the microfilm would be 16.35 of 70 millimetre film.

(b) Tape recording seismograph stations (including arrays)

(i) Name of station

(ii) Co-ordinates of station

(iii) A general account of the instrumentation geometry of the array

(iv) Components recorded on magnetic tape and magnetic tape specifications. (This would include the operational magnifications at one second for short period instrumentation and at 15 or 20 seconds for long period instruments)

As under (a) above, in the interests of obtaining maximum usefulness from an international exchange of data, the Government of ..... is requested to indicate whether it would provide full operational curves for band-pass and time code recorded on tape. It would also be useful if the Government of ..... could indicate how long the original tape can be made available before the tapes are erased and re-used.

In view of the urgency in making progress in the direction of a solution for a Comprehensive Test Ban the ENDC would greatly appreciate it if the information requested above could be forwarded to the Secretary-General of the United Nations with the least possible delay for transmission to the ENDC.

CO-CHAIRMAN OF THE ENDC

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